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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/500,991	02/15/2000	Frank Uhlmann	0652.2040000/REF	3282	
7	7590 04/08/2003				
Sterne Kessler Goldstein & Fox PLLC Attorneys at Law 1100 New York Avenue N W			EXAMINER		
			FRONDA, CHRISTIAN L		
Suite 600 Washington, DC 20005-3934			ART UNIT	PAPER NUMBER	
			1652	10	
			DATE MAILED: 04/08/2003	16	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. **09/500,991**

Applicant(s)

Uhlmann et al.

Examiner

Christian L. Fronda

Art Unit 1652

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The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) FROM							
THE MAILING DATE OF THIS COMMUNICATION.							
- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.							
11110	- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.						
· anarc	to reply within the set or extended period for reply will, by statute, cause ply received by the Office later than three months after the mailing date o	the application to become		ONED 125 11 C.C. 5 1221			
earnec	patent term adjustment. See 37 CFR 1.704(b).	triis continuincation, eve	an II timei	y tiled, may reduce any			
Status 1)	Pagasaina na n						
	Responsive to communication(s) filed on						
2a) 💢	This action is FINAL . 2b) ☐ This action	ction is non-final.					
3) ∐	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.						
Disposi	tion of Claims	,		, 100 0.0. 210.			
4) 💢	Claim(s) 36, 37, 40, 41, 43, 44, and 46-49			is/are pending in the application.			
	a) Of the above, claim(s)						
5) 🗌	Claim(s)			is/are allowed.			
6) 💢	Claim(s) 36, 37, 40, 41, 43, 44, and 46-49			is/are rejected.			
7) 🗆	Claim(s)			is/are objected to.			
8) 🗌	Claims	are s	subiect	to restriction and/or election requirement			
Applica	tion Papers		,	to rectangue and/or discussive requirement.			
9) 🗆	The specification is objected to by the Examiner.						
10)💢	The drawing(s) filed onFeb 15, 2000 is/are	e a) 💢 accepted	or b)[Objected to by the Examiner			
	Applicant may not request that any objection to the						
11)	1)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner						
	If approved, corrected drawings are required in reply	to this Office action	on.	pp. 0.00 by the Examiner.			
12)							
Priority under 35 U.S.C. §§ 119 and 120							
	Acknowledgement is made of a claim for foreign p	riority under 35 l	J.S.C.	§ 119(a)-(d) or (f)			
a) ☑ All b) ☐ Some* c) ☐ None of:							
1	1. X Certified copies of the priority documents have been received.						
2	2. Certified copies of the priority documents have been received in Application No.						
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
*Se	e the attached detailed Office action for a list of th	e certified copies	not re	ceived.			
a) 🗀	The translation of the foreign language provisional application has been received.						
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachme	nt(s)	_					
	e of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper No(s)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		5) Notice of Informal Patent Application (PTO-152)					
Information Disclosure Statement(s) (PTO-1449) Paper No(s)							

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DETAILED ACTION

Election/Restriction

- 1. Applicants' cancellation of claim 39 and amendment of clam 36 in the Amendment And Reply Under 37 C.F.R. § 1.111 (Paper No. 15) is acknowledged.
- 2. Claims 36, 37, 40, 41, 43, 44, and 46-49 are under consideration in this Office Action.

Claim Rejections - 35 U.S.C. § 112, 1st Paragraph

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

 The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claims 46 and 47 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The claims are directed to any method for identifying compounds that inhibit sister chromatid separation using any human SCC1 substrate or a fragment, variant, or cleavable fragment thereof. The specification, however, only provides a single representative species encompassed by these claims: a human SCC1 protein substrate consisting of the amino acid sequence of SEQ ID NO: 1. There is no disclosure of any particular structure to function/activity relationship in the single disclosed species. The specification also fails to describe additional representative species of these polynucleotides by any identifying structural characteristics or properties for which no predictability of structure is apparent. Given this lack of additional representative species as encompassed by the claims, Applicants have failed to sufficiently describe the claimed invention, in such full, clear, concise, and exact terms that a skilled artisan would recognize Applicants were in possession of the claimed invention.

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Claim Rejections - 35 U.S.C. § 112, 2nd Paragraph

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 36, 37, 40, 41, 43, 44, and 46-49 are again rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The claims do not recite steps that show how the inhibiting effect of the test compound inhibits sister chromatid separation in eukaryotic cells. It appears that the method steps describe a method for identifying a compound that inhibits the proteolytic activity of separin instead of a method for identifying a compound that inhibits sister chromatid separation. Applicants have not presented arguments in Paper No. 15 to traverse this rejection.
- 7. Claims 46 and 47 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Applicant's arguments filed January 21, 2003 (Paper No. 15) have been fully considered but they are not persuasive. Applicant's position is that the specification shows how variants can be generated. However, the specific sequence/structure of the human SCC1 "fragment or variant thereof" is not known and not defined in the specification. One cannot determine when a protein is or is not a fragment or variant of a substrate SCC1 protein. Amending the claims to specifically recite SEQ ID NO: 1 as the human SSC1 substrate may overcome the rejection.

Conclusion

- 8. No claims are allowed.
- 9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christian L. Fronda whose telephone number is (703)305-1252. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy, can be reached at (703)308-3804. The fax phone number for this Group is (703)308-0294. Any inquiry of a general nature or relating to the status of this application should be directed to the Group 1600 receptionist whose telephone number is (703)308-0196.

CLF